

Plastic Mold Infrared LEDs

KED941M51B

Characteristics

- Transparent epoxy mold
- Direct modulation

Applications

- Optical switches
- Optical instruments
- Automatic control apparatus

Chip Material

• GaAlAs

Package

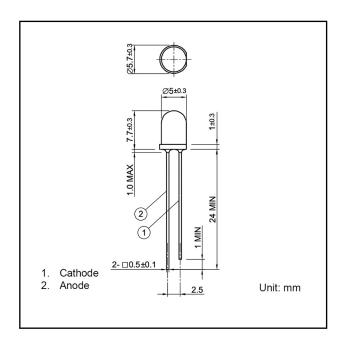
• MOLD

Diameter

• 5mm

Resin Type

• clear





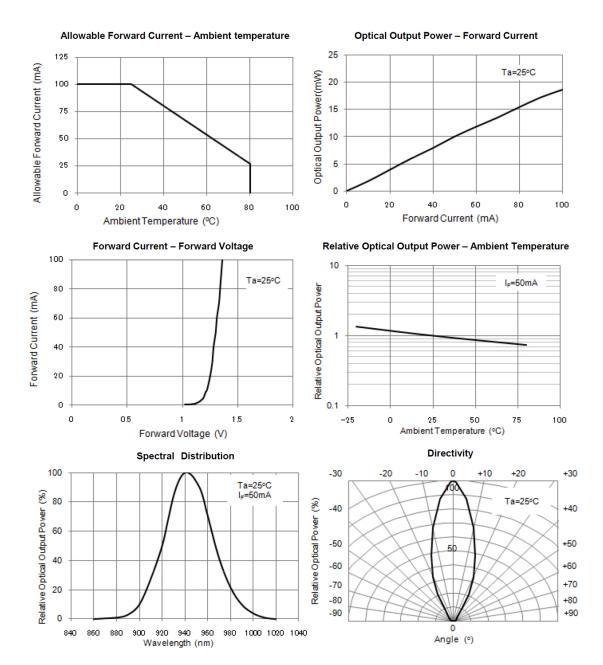
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	6	V	-
Forward current	I _F	100	mA	-
Peak forward current	I _{FP}	1	А	Pulse width=100µs Duty ratio=1%
Power dissipation	P _D	150	mW	-
Operating temperature	T _{opr}	-20 to +80		Avoid dew condensation
Storage temperature	T _{stg}	-30 to +100		Avoid dew condensation
Soldering temperature	T _{sol}	260		Soldering time less than 5 seconds

Electrical and Optical characteristics (T_a=25 unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse Current	I _R	-	-	10	μΑ	V _R =6V
Forward voltage	V _F	-	1.3	1.6	V	I _F =50mA
Optical output power	Po	-	10	-	mW	I _F =50mA
Peak wavelength	р	-	940	-	nm	I _F =50mA
Spectral width		-	50	-	nm	I _F =50mA
Half angle	2	-	28	-	deg.	I _F =50mA







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